



Society of Thoracic Surgeons

Congenital Heart Surgery Database
Monthly Webinar

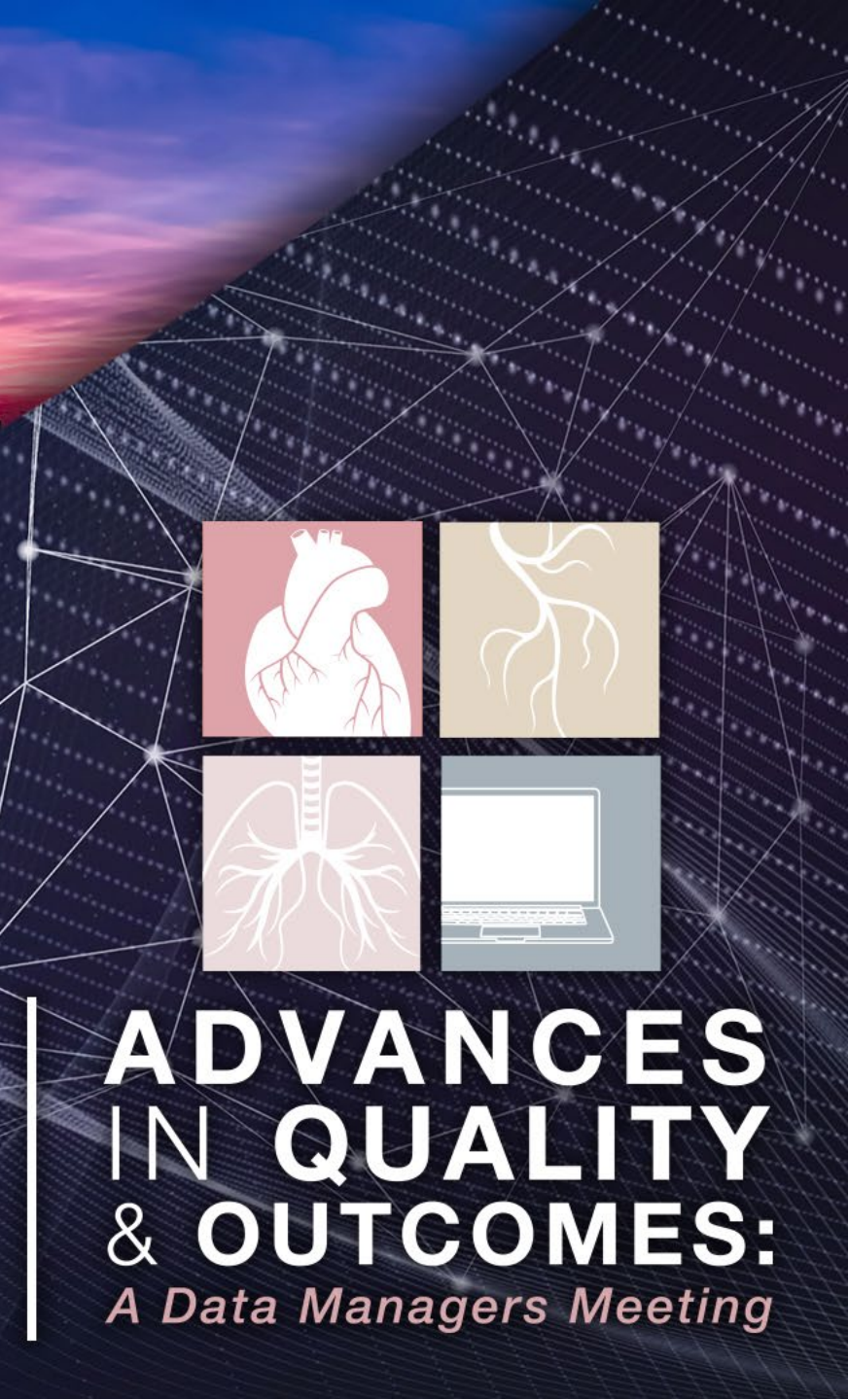
August 13, 2024

Agenda

- Welcome and Introduction
- STS Update
- STS Data Manager Education (Chasity Wellnitz & Leslie Wacker, CHSD Consultants)
 - Post-operative Event Review: Mechanical circulatory support
 - Aortic aneurysm diagnosis and repairs (to be presented in an upcoming webinar)
- Q&A

STS Updates

- August Training Manual posted
- Spring 24 Harvest (Surgery dates 1/1/2020 – 12/31/2023)
 - Final stages of report QC
 - Report will be released within the next two weeks
 - Notification via STS email communication
- Fall 24 Harvest is underway
 - Surgery dates 7/1/2020 – 6/30/2024
 - Harvest close is September 27 @ 11:59pm Eastern
 - Opt out date is 10/1/2024
- Data Manager Collaborative



JOIN US IN MUSIC CITY!

September 11-13 Nashville, TN
Register at sts.org/AQO

**ADVANCES
IN QUALITY
& OUTCOMES:**
A Data Managers Meeting

AQO
Registration
Now Open

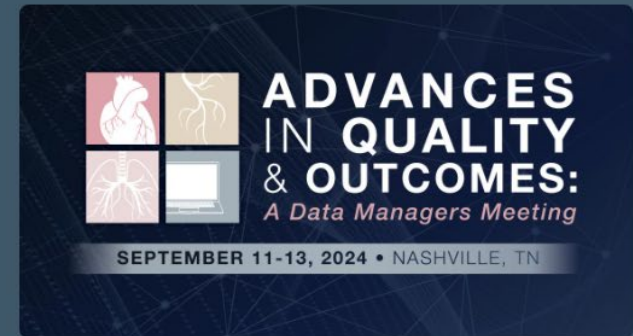
Event

2024 Advances in Quality & Outcomes: A Data Managers Meeting

Discussions on valuable research and important clinical findings with the goal of improving data collection and patient outcomes.

Register Now

Reserve Housing



Date(s)
Sep 11–13, 2024

Location
Nashville, TN
Loews Vanderbilt Hotel

Audience
Data Manager

AQO Pricing (In-Person and Virtual)

In-Person Pricing

In-Person Pricing

Category	Early Bird Discounts (through May 16)	Standard Rate (May 17 - September 14, 2024)
STS Member - One Day	\$700	\$800
STS Member - Two Day	\$1,050	\$1,250
STS Member - Three Day	\$1,300	\$1,600
Non-Member - One Day	\$800	\$900
Non-Member - Two Day	\$1,250	\$1,450
Non-Member - Three Day	\$1,600	\$1,900
Industry Employee	\$750	\$750

You'll need your STS Member ID to receive the discounted member rate. Database participation differs from STS membership (e.g., Surgeon or Associate Membership). Your 6-digit STS Member ID is not your site or Database participant ID. For help with your STS Member ID, please contact [Member Services](#).

Virtual Pricing

Virtual Pricing

For those unable to travel to Nashville, STS offers a virtual registration option. Registrants who choose the "virtual pass" will gain access to on-demand content and e-posters online before AQO and the recorded archive of all sessions following the conclusion of the meeting. (the virtual pass does not include live streaming.)

In the months after the meeting, each registry will host an AQO Hot Topics webinar. We will bring back meeting speakers and give virtual attendees a chance to ask questions. Conversations will touch on valuable research and best practices from STS National Database professionals, all to improve data collection and patient outcomes.

Category	Early Bird Discounts (through May 16)	Standard Rate (May 17 - September 14, 2024)
STS Member - Multi-Day	\$300	\$400
Non-Member - Multi-Day	\$400	\$500





6.23.2 Data Manager Education

August 13, 2024



Discussion Topics

- Postoperative Event
Review: *Coding*
Mechanical Circulatory
Support

Postoperative Event Example #1

A patient cannot separate from bypass following an arterial switch operation and requires ECMO cannulation in the OR. The patient is decannulated 3 days later.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

No

Yes

Postoperative Event Example #1

A patient cannot separate from bypass following an arterial switch operation and requires ECMO cannulation in the OR. The patient is decannulated 3 days later.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

No

Yes

Post Operative Event Capture

TM Definition:

General Information Timeframe for Postoperative Events

The timeframe for postoperative event coding is defined by the designation of the event: intraoperative, major postoperative event, and other postoperative event. Please refer to the specific definition for each event to determine the timeframe for data collection.

Post Operative Event: MCS Review

TM Definition:

Postoperative/Postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)

Timeframe: Major event timeframe

See [General Information Postoperative Event Timeframe](#) for additional information.

Code this Event: if the patient received mechanical circulatory support (MCS) via IABP, VAD, ECMO, or CPS anytime during the defined timeframe.

If the patient on preoperative MCS undergoes a cardiac operation (operation types CPB cardiovascular and No CPB cardiovascular) and exits the operating room on mechanical circulatory support, do code this postoperative event (and [also include as a preoperative factor](#)).

Post Operative Event: MCS Review

TM Definition:

Major postoperative events are collected through the end of the episode of care (End date of Database Tracking / Database Discharge Date).

Coding Notes: Collect for the timeframe that is the longest: (1) through the 30th postoperative day, *or* (2) through the end of the surgical hospitalization (Hospital Discharge Date), *or* (3) through the end of the episode of care (End Date of Database Tracking / Database Discharge Date).

The timeframe includes the postoperative time-period through surgical hospital discharge, even if longer than 30 days. If transferred to another facility, collect through the end of the episode of care (End Date of Database Tracking / Database Discharge Date).

Postoperative Event Example #2

A patient cannot separate from bypass following an arterial switch operation and requires ECMO cannulation in the OR. The patient is decannulated 3 days later.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the patient was cannulated during the index operation
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #2

A patient cannot separate from bypass following an arterial switch operation and requires ECMO cannulation in the OR. The patient is decannulated 3 days later.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the patient was cannulated during the index operation
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *when the support was needed during the major postoperative event timeframe*
- *where the initiation of support occurred*

Postoperative Event Example #3

Two days following a Norwood procedure and prior to sternal closure, a patient experiences cardiac arrest and is cannulated for ECMO. Subsequently the patient is converted to VAD support to await heart transplantation.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the cannulation occurred while the sternum was open
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #3

Two days following a Norwood procedure and prior to sternal closure, a patient experiences cardiac arrest and is cannulated for ECMO. Subsequently the patient is converted to VAD support to await heart transplantation.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the cannulation occurred while the sternum was open
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *when the support was needed during the major postoperative event timeframe*
- *whether the sternum was still open*

Postoperative Event Example #4

During an inpatient feeding therapy session following complete AVSD repair, a patient aspirates and requires CPR and ECMO cannulation.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support was not related to the cardiac surgery
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #4

During an inpatient feeding therapy session following complete AVSD repair, a patient aspirates and requires CPR and ECMO cannulation.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support was not related to the cardiac surgery
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *the reason circulatory support was needed*

Postoperative Event Example #5

A patient remained inpatient for 6-months following placement of a central shunt. Just prior discharge, an incorrect medication was administered, and the patient's subsequent arrhythmias led to hemodynamic instability requiring 24-hours of ECMO support.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support was 6-months following the index operation
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #5

A patient remained inpatient for 6-months following placement of a central shunt. Just prior discharge, an incorrect medication was administered, and the patient's subsequent arrhythmias led to hemodynamic instability requiring 24-hours of ECMO support.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support was 6-months following the index operation
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *the reason circulatory support was needed*
- *when the support was needed during the major postoperative event timeframe*

Postoperative Event Example #6

Following heart transplant, a patient transfers to another center closer to home for continued care. The center calls to report the patient experienced a cardiac arrest, required ECMO support, and expired prior to transfer back to the surgical hospital.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support occurred at another hospital
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #6

Following heart transplant, a patient transfers to another center closer to home for continued care. The center calls to report the patient experienced a cardiac arrest, required ECMO support, and expired prior to transfer back to the surgical hospital.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the need for ECMO support occurred at another hospital
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *when the support was needed during the major postoperative event timeframe*

Postoperative Event Example #7

A patient receiving VAD support enters the OR for heart and lung transplantation. Following the transplants, the patient is unable to separate from bypass and requires ECMO support.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the patient arrived in the OR already on support
- Yes, because the patient required MCS support in the major postoperative event timeframe

Postoperative Event Example #7

A patient receiving VAD support enters the OR for heart and lung transplantation. Following the transplants, the patient is unable to separate from bypass and requires ECMO support.

Do I code postoperative event (40) Postoperative/postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS)?

- No, because the patient arrived in the OR already on support
- Yes, because the patient required MCS support in the major postoperative event timeframe

Code postoperative event (40) Postoperative/ postprocedural mechanical circulatory support (IAPB, VAD, ECMO, or CPS) regardless of:

- *whether the patient required mechanical circulatory support at OR entry date and time*

Post Operative Event: MCS Review

In Summary -

- MCS is collected as a major postoperative event
- Code this event regardless of when/where the patient requires the support
- Code this event if the patient was on MCS upon arrival to the OR if the patient leaves the OR on MCS support

Open Discussion

Please use the
Q&A Function.

We will answer as
many questions as
possible.

We encourage
your feedback and
want to hear from
you!

Upcoming
CHSD
Webinars

Monthly Webinars

- 9/17/24 @ 12pmCT
- 10/15/24 @ 12pmCT

Contact Information

Leigh Ann Jones, STS
National Database Manager,
Congenital and General
Thoracic

- Ljones@sts.org

Tech Support
Analysis Report/Data
Submission Questions

- STSDB_helpdesk@sts.org

Database Operational
Questions

- STSDB@sts.org

Congenital STS Database Consultants

- Leslie Wacker lwacker@sts.org
- Chasity Wellnitz cwellnitz@sts.org



STS National Database[™]
Trusted. Transformed. Real-Time.

THANK YOU FOR JOINING!